

CLAIMS

1. Strengthening material suitable for use as reinforcement in composites, comprising at least one singular thickness-providing layer in the form of a knit of glass fibre which knit comprises at least one monofilament, and at least one singular strengthening layer connected to the singular thickness-providing layer.

2. Strengthening material as claimed in claim 1, wherein the monofilament is chosen from the group consisting of polyethylene, polyester, polypropylene, polyamide, synthetic materials and combinations thereof.

3. Strengthening material as claimed in claim 1 or 2, wherein the singular thickness-providing layer has a thickness of 0.5 up to and including 20 millimetres.

4. Strengthening material as claimed in any of the claims 1-3, wherein the singular thickness-providing layer has a thickness of 1 up to and including 10 millimetres.

5. Strengthening material as claimed in any of the claims 1-4, wherein the singular thickness-providing layer has a weight of 25 up to and including 1500 g/m².

6. Strengthening material as claimed in any of the claims 1-5, wherein the singular thickness-providing layer has a weight of 50 up to and including 1000 g/m².

7. Strengthening material as claimed in any of the claims 1-6, wherein the singular strengthening layer is chosen from the group consisting of glass fibre, aramid,

carbon, basalt, ceramic, twintex, mixtures of glass and thermoplastics, flax, natural fibres, and combinations thereof.

5 8. Strengthening material as claimed in any of the claims 1-7, wherein the singular strengthening layer is a non-woven, a woven fabric or a membrane.

10 9. Strengthening material as claimed in any of the claims 1-8, wherein the singular thickness-providing layer has less weight per unit of volume than the singular strengthening layer.

15 10. Strengthening material as claimed in any of the claims 1-9, wherein the singular thickness-providing layer and the singular strengthening layer are mutually connected by knitting techniques, sewing techniques, needle punching techniques and/or combinations thereof.

20 11. Strengthening material as claimed in any of the claims 1-10, comprising at least two singular strengthening layers connected to one singular thickness-providing layer in the form of a knit of glass fibre and at least one monofilament, wherein the singular thickness-providing layer
25 is situated between the two singular strengthening layers.

 12. Strengthening laminate comprising a stack of two or more of the strengthening materials as claimed in any of the claims 1-11.

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 13. Composite comprising a strengthening material according to any of the claims 1-11 or a strengthening laminate according to claim 12.

14. Method for the production of composites,
comprising of forming a strengthening material according to
any of the claims 1-11 or a strengthening laminate according
to claim 12 into a desired shape, impregnating the
5 strengthening material with a resin, and allowing the resin
to cure.

15. Use of a knit of glass fibre comprising at least
one polymeric monofilament for the production of composites.